

ABSTRACT OF THE DISCLOSURE

A paper handling system includes an acceleration conveyor having an
5 acceleration belt operating at an acceleration speed. The system includes a
pinning structure operably positioned to pin paper to the acceleration belt. The
pinning structure is a rotary feeder which includes a plurality of flexible
bristles extending radially from a roller into engagement with the acceleration
belt. The speed of the acceleration belt is sufficiently high to create a suction
10 phenomena such that when paper is pinned to the acceleration belt with the
rotary feeder, the paper will be accelerated to a paper speed substantially equal
to the acceleration speed. The system also includes a blower system operative
to facilitate carrying the paper off of the acceleration belt across a transition
gap between the acceleration belt and a product belt.